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	AA	5,284,935	02/08/94	Clark, et al.	530	403		
	AB	5,260,422	11/09/93	Clark, et al.	530	403		
	AC	5,194,425	03/16/93	Sharma, et al.	514	8		
	AD	5,130,297	07/14/92	Sharma, et al.	514	8		
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•	AE	WO 94/18998	09/01/94	PCT			Yes	
	AF	WO 93/10220	03/27/93	PCT			Yes	
	AG	WO 92/18150	10/29/92	PCT			Yes	
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	AH	H. Konozo, et al., N	ature, 369:151	-154 (1994).			 	
	ΑI	J. Altman, et al., Pro	oc. Natl. Acad.	Sci, USA, 90:10330-10334 (1993).		·.		
	ΑJ	L. Stern, et al., Natu	re, 368:215-22	1 (1994).			·	
	AK	S. Sharma, et al., Pr	oc. Natl. Acad.	Sci. USA, 88:11465-11469 (1991).				
	AL	J. Guery, et al., Crit	ical Reviews in	Immunology, 13(3/4):195-206 (1993	3).			
	AM	M. Nicolle, et al., J.	Clin. Invest.,	93:1361-1369 (1994).				
	AN	D. Harlan, et al., Pro	oc. Natl. Acad.	Sci. USA, 91:3137-3141 (1994).				
	ΑO	E. Evahold, et al., In	nmunology Tod	ay, 14(12):602-609 (1993).				
	AP	R. Chicz, et al., Imm	unology Today	, 15(4):155-160 (1994).				
	AQ	R. Tisch, et al., Proc	. Natl. Acad. S	Sci. USA, 91:437-438 (1994).				
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FORM PTO	D-1449		DOCKET NO. 46146-C2	SERIAL NO.:			
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	AR	Science, 259:1691-1692 (1993).					
	AS	J. Ulmer, et al., Science, 259:1745-	1749 (1993).				
	AT	H. Ploegh, et al., Nature, 364:16-17	7 (1993).				
	ΑU	J. Brown, et al., Nature, 364:33-39	(1993).				
	AV	D. O'Sullivan, et al., Journal of Imm	munology, 147:2663-2669 (1991).				
	AW	J. Hammer, et al., J. Exp. Med., 17	6:1007-1013 (1992).				
·	AX	L. Stern, et al., Cell, 68:465-477 (19	992).				
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	BG	WO 93/09810	05/27/93	PCT			
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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

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CA H. Konozo, et al., Nature, 369: 151 (1994).

WO 89/12458

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FORM PTO-14		OSURE STATEMENT	ATTY DOCKET NO. 46146-C2 (71758)	SERIAL NO.			
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	СВ	J. Altman, et al. Proc. Natl.	Acad. Sci. USA, 90: 10:	330 (1993).			
	CC	L. Stern, et al., Nature, 368:	215 (1994).				
	CD	S. Sharma, et al., Proc. Natl.					
	CE	J. Guery, et al., Critical Rev	eviews in Immunology, 13(3/4): 195 (1993).				
	CF	M. Nicolle, et al., J. Clin. I.	Invest., 93: 1361 (1994).				
	CG	D. Harlan, et al., Proc. Natl.	Acad. Sci. USA, 91: 3	137 (1994).			
	CH	E. Evahold, et al., Immunology	Today, 14(12): 602 (1	993).			
	CI	R. Chicz, et al., Immunology T	oday, 15(4): 155 (1994)				
	CJ	R. Tisch, et al. Proc. Natl. A	cad. Sci. USA, 91: 437	(1994).			
	CK	Science, 259: 1691-1682 (1993)	·				
	CL	J. Ulmer, et al. Science, 259:	1745 (1993).				
	CM	H. Ploegh, et al., Nature, 364	: 16 (1993).				
	CN	J. Brown, et al., Nature, 364:					
	со	D. O'Sullivan, et al., Journal	of Immunology, 147: 2	663 (1991).			
	CP	J. Hammer, et al., J. Exp. Med	., 176: 1007 (1992).				
	CQ	L. Stern, et al., Cell, 68: 46	5 (1992).				
•	CR	K. Webber, et al., Molecular I					
	CS	Y. Reiter, et al., The Journal (1994).	of Biological Chemist	ry, 269: 18327			
	СТ	K. O'Neil, et al. Science, 249	: 774-778.				

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F. Godeau, et al., Journal of Biological Chemistry, 267: 24223 (1992).

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CA Rhode, P.R., et al., Single-Chain MHC Class II Molecules Induce I Cell Activation and Apoptosis, The American Association of Immunologists, 1996										
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